AMENDMENTS TO THE CLAIMS

Claims 1-10 (Cancelled).

11. (New): An impurity disposal system for removing and disposing impurities contained in a target gas, comprising:

an impurity removing unit that removes an impurity gas from the target gas while the target gas is in a gaseous state;

a compressing unit that compresses the impurity gas to produce compressed impurity gas;
a drying unit that removes water from the compressed impurity gas to produce a dried
compressed impurity gas; and

a disposing unit that disposes the dried compressed impurity gas into an underground aquifer.

- 12. (New): The impurity disposal system according to claim 11, wherein the target gas includes natural gas.
- 13. (New): The impurity disposal system according to claim 11, wherein the target gas includes a mixture of gas and oil.
- 14. (New): The impurity disposal system according to claim 11, wherein the impurity gas includes carbon dioxide.

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- 15. (New): The impurity disposal system according to claim 11, wherein the impurity gas includes hydrogen sulfide.
- 16. (New): The impurity disposal system according to claim 11, further comprising a driving unit configured to drive the compressing unit.
- 17. (New): The impurity disposal system according to claim 16, wherein the driving unit includes a gas turbine.
- 18. (New): The impurity disposal system according to claim 16, wherein the driving unit includes a gas engine.
- 19. (New): The impurity disposal system according to claim 16, wherein the driving unit includes a steam turbine.
- 20. (New): The impurity disposal system according to claim 16, further comprising:

 a carbon dioxide removing apparatus that removes carbon dioxide produced by the driving
 unit; and

a mixing unit that mixes the carbon dioxide with the impurity gas, wherein compressing unit compresses a mixture of the carbon dioxide and the impurity gas.

- 21. (New): The impurity disposal system according to claim 17, wherein the gas turbine includes a boiler that recovers a waste heat discharged from the gas turbine, wherein steam produced by the boiler is used for a heat source during removal of impurities.
- 22. (New): The impurity disposal system according to claim 18, wherein the gas engine includes a boiler that recovers a waste heat discharged from the gas engine, wherein steam produced by the boiler is used for a heat source during removal of impurities.
- 23. (New): A method of removing and disposing impurities contained in a target gas, comprising:

removing an impurity gas from the target gas while the target gas is in a gaseous state; compressing the impurity gas to produce compressed impurity gas;

removing water from the compressed impurity gas to produce a dried compressed impurity gas; and

disposing the dried compressed impurity gas into an underground aquifer.

- 24. (New): The method according to claim 23, wherein the target gas includes natural gas.
 - 25. (New): The method according to claim 23, wherein the target gas includes a

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mixture of gas and oil.

- 26. (New): The method according to claim 23, wherein the impurity gas includes carbon dioxide.
- 27. (New): The method according to claim 23, wherein the impurity gas includes hydrogen sulfide.
- 28. (New): The method according to claim 23, wherein the compressing is performed using a gas turbine.
- 29. (New): The method according to claim 23, wherein the compressing is performed using a gas engine.
- 30. (New): The method according to claim 23, wherein the compressing is performed using a steam turbine.
 - 31. (New): The method according to claim 23, further comprising:

removing carbon dioxide produced by a device that drives a compressor that performs the compressing; and

mixing the carbon dioxide with the impurity gas, wherein the compressing includes

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compressing a mixture of the carbon dioxide and the impurity gas.

32. (New): The method according to claim 23, further comprising: collecting steam produced by a boiler that recovers a waste heat discharged from the gas turbine; and

using the steam as a heat source during removal of impurities.